

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 11162219  
PUBLICATION DATE : 18-06-99

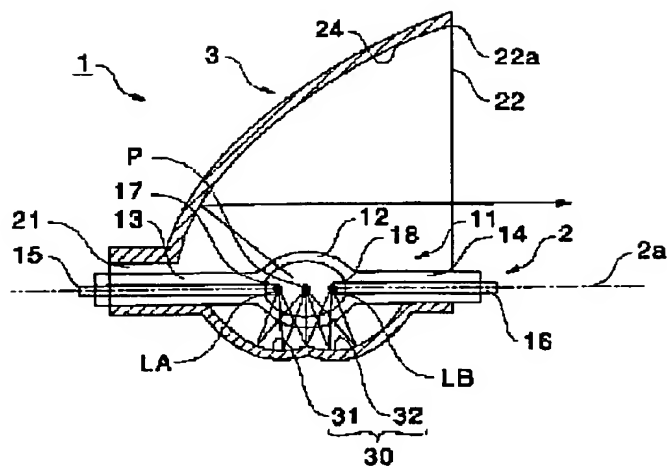
APPLICATION DATE : 27-11-97  
APPLICATION NUMBER : 09325517

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INT.CL. : F21V 7/09 F21V 8/00 G02B 5/10  
G02B 19/00 G02B 27/00 G02F 1/1335  
H05B 31/00

TITLE : LIGHTING SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To miniaturize a lighting system without sacrificing the brightness when an arc lamp is used.

SOLUTION: This lighting system 1 has an arc lamp 2 and a reflector 3 for reflecting the light emitted from the arc lamp 2. The reflector 3 is provided with a semicircular emitting opening 22, a parabolic sectional main reflecting surface 24, and an auxiliary surface. An auxiliary reflecting surface 30 for reflecting the light emitted from first and second light emitting points LA and LB and converging it to the intermediate point of a line segment mutually connecting the first and second light emitting points LA and LB is formed on the auxiliary surface. The light converted to the intermediate point P by the auxiliary reflecting surface 30 is converted into an emitted light having a high degree of parallel by the main reflecting surface 24. Thus, the lighting system 1 can be miniaturized without sacrificing the brightness.

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